

TABLE 3. Metrics of pQCT variables at metaphyseal and diaphyseal sites – differences by sex (mean and SD)

Metaphyseal sites

4% radius	Males (N=39)	Females (N=33)	P value
Total BMC	126.8 (32.4)	94.3 (12.6)	<0.0001
Total vBMD	348.3 (59.7)	310.9 (49.9)	0.006
Trabecular BMC	33.7 (12.3)	23.4 (4.9)	<0.0001
Trabecular vBMD	201.9 (38.1)	171.0 (34.0)	<0.001
Average trabecular thickness	0.63 (0.60)	0.60 (0.05)	0.017
Trabecular number	0.86 (0.07)	0.79 (0.09)	<0.0001
Average hole size	0.73 (0.42)	1.33 (0.81)	<0.001
Maximum hole size	67.0 (41.2)	101.7 (44.1)	<0.001
Free end density	0.62 (0.24)	0.85 (0.21)	<0.0001
Isolated point density	0.06 (0.04)	0.16 (0.06)	<0.0001
Connectivity index	0.24 (0.05)	0.20 (0.04)	<0.0001
4% tibia			
Total BMC	377.9 (75.8)	339.6 (264.1)	0.390
Total vBMD	305.6 (37.1)	296.5 (43.3)	0.342
Trabecular BMC	136.7 (29.6)	119.6 (94.3)	0.286
Trabecular vBMD	245.3 (31.8)	131.4 (35.6)	0.085
Average trabecular thickness	0.58 (0.06)	0.56 (0.06)	0.340
Trabecular number	0.92 (0.08)	0.89 (0.09)	0.187
Average hole size	0.66 (0.42)	0.92 (0.59)	0.065
Maximum hole size	171.2 (125.2)	222.2 (151.9)	0.157
Free end density	0.62 (0.21)	0.71 (0.25)	0.090
Isolated point density	0.05 (0.03)	0.07 (0.05)	0.067
Connectivity index	0.27 (0.05)	0.25 (0.05)	0.063

Diaphyseal sites

20% radius	Males (N=39)	Females (N=33)	P value
Total BMC	110.0 (26.8)	86.9 (11.7)	<0.0001
Total vBMD	767.8 (124.7)	808.4 (113.3)	0.155
Cortical BMC	98.8 (21.3)	79.1 (12.6)	<0.0001
Cortical vBMD	1167.2 (62.1)	1208.8 (50.4)	0.003
Cortical thickness	2.45 (0.45)	2.19 (0.35)	0.008
Polar SSI	280.8 (89.6)	201.0 (47.6)	<0.0001
38% tibia			
Total BMC	372.6 (65.5)	305.1 (33.9)	<0.0001
Total vBMD	847.5 (97.3)	889.3 (96.6)	0.073
Cortical BMC	349.9 (61.8)	287.1 (33.0)	<0.0001
Cortical vBMD	1160.41 (45.6)	1205.6 (26.9)	<0.0001
Cortical thickness	5.21 (0.68)	4.69 (0.70)	0.002
Polar SSI	1743.1 (410.1)	1245.3 (137.9)	<0.0001
66% tibia			
Total BMC	390.72 (90.0)	328.6 (36.7)	<0.0001
Total vBMD	635.6 (77.4)	656.0 (77.8)	0.276
Cortical BMC	335.6 (81.6)	282.4 (34.8)	<0.001
Cortical vBMD	1097.0 (42.6)	1132.4 (25.9)	<0.0001
Cortical thickness	4.06 (0.79)	3.70 (0.53)	0.029
Polar SSI	2393.9 (690.4)	1831.2 (289.0)	<0.0001